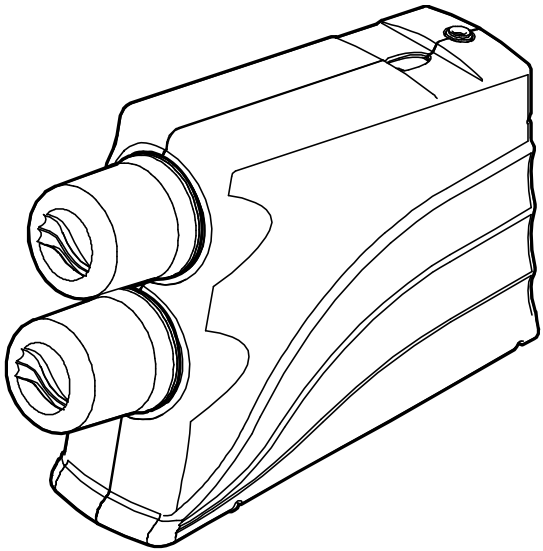
GLACIER BAY

Item # 1001 104 020
Model # HDGMBS4

USE AND CARE GUIDE

ULTIMATE DEFENSE DRINKING WATER FILTRATION SYSTEM



Questions, problems, missing parts? Before returning to the store,
call Glacier Bay Customer Service
7 a.m. - 6 p.m., CST, Monday - Friday

1-800-247-1087

HOMEDEPOT.COM/GLACIERBAY

System tested and certified by NSF International against NSF/ANSI Standards 42 & 53. See performance data sheet for details.

System tested and certified by WQA against NSF/ANSI Standards 42, 53 and USEPA microbiological guide for the reduction of the claims specified on the performance data sheet.

C USA

201-8401420 (rev 00)

THANK YOU

We appreciate the trust and confidence you have placed in Glacier Bay through the purchase of this drinking water filtration system. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Glacier Bay!

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Safety Information

Read all instructions before installing and using your home water filtration system. Follow all steps exactly to correctly install. Reading this manual will also help you to get all the benefits from the filtration system.

All plumbing must be completed in accordance with national, state and local plumbing codes. Local code information can be obtained at your local public works department. In Massachusetts, plumbing code 248 CMR 3.00 and 10.00 shall be adhered to. Consult with your licensed plumber.

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

WARNING: Do not use for the treatment of water that is visually contaminated (cloudy) or has an obvious contamination source, such as contamination by raw sewage.

CAUTION: Do not install the filtration system outside, or in extreme hot or cold temperatures. Temperature of the water supply to the filtration system must be between 40°F and 100°F. Do not install on a hot water line.

NOTICE: This filtration system works on water pressures of 40 psi (minimum) to 100 psi (maximum). If your house water pressure is over the maximum, install a pressure reducing valve in the water supply pipe to the filtration system.

NOTICE: Commonwealth of Massachusetts plumbing codes do not permit the use of saddle valves and require installation by a licensed plumber. Comply with plumbing code 248-CMR for installations in the state of Massachusetts. Please consult your local plumber.

Warranty

GLACIER BAY WATER FILTRATION SYSTEMS - WARRANTY

Glacier Bay Water Filtration Systems are manufactured under the highest standards of quality and workmanship. Glacier Bay Water Filtration Systems warrants to the original purchaser that this system will be leak and drip free during normal domestic use for a period of one (1) year from date of purchase. If this system should ever develop a leak or drip Glacier Bay Water Filtration Systems will free of charge provide the parts necessary to put the system back in good working condition. A replacement for any defective part will be supplied free of charge for installation by the purchaser. Defects or damage caused by use of other than authorized parts are not covered by this warranty. This warranty shall be effective from date of purchase as shown on purchaser's receipt. Glacier Bay Water Filtration Systems shall be installed per the manufacturer's installation instructions and specifications. Some states do not allow limitations on how long a warranty lasts, so the above limitation may not apply to you. This warranty is valid for the original purchaser only and excludes industrial, commercial, or business use of the product, product misuse, and product damage due to installation error, whether performed by a contractor, service company, or yourself. Glacier Bay Water Filtration Systems will not be responsible for labor charges or for damage incurred during installation, repair or replacement, nor for incidental or consequential damages. Some states, provinces and nations do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you. Glacier Bay Water Filtration Systems will advise you of the procedure to follow in making warranty claims.

Simply write to Glacier Bay Water Filtration Systems at the address below. Explain the defect and include proof of purchase and you name, address and telephone number or you can also call us at 1-800-247-1087.

U.S.A
Glacier Bay Water Filtration Systems
2455 Paces Ferry Road, N.W.
Atlanta, GA 30339-4024

Canada
Glacier Bay Water Filtration Systems
900-1 Concorde Gate
Toronto, ON M3C 4H9

Pre-Installation

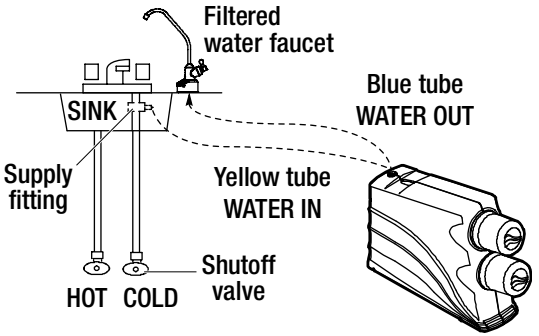
ABOUT THIS FILTRATION SYSTEM

The Ultimate Defense Drinking Water Filtration System uses a dual filter configuration to remove undesirable elements in your water. These elements may include chlorine taste and odor, particulates, lead, virus, bacteria, cysts, and many organic compounds. At the same time, the system allows the minerals found in water to remain, for great tasting water. The filters in this system are designed to stop the flow of water when their capability to protect the user has been exhausted.

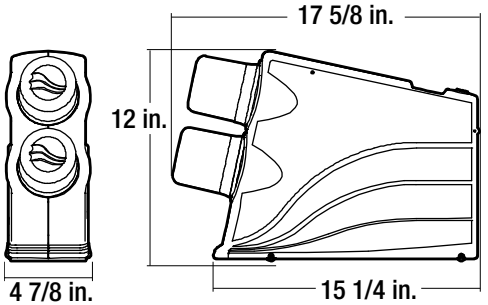
A performance data sheet is included listing what the system will reduce from the water supply. See the performance data sheet for individual contaminants and microbial reduction performance.

INSTALLATION LOCATION

The drinking water system fits under the kitchen or bathroom sink. However, you can install it where it is most convenient. You need a COLD water supply pipe within a few feet (6 feet of tubing is included). You can purchase longer lengths of tubing if needed to reach more distant points. Be sure tubing is acceptable for use on potable water supplies.



DIMENSIONS



SPECIFICATIONS

Minimum – Maximum Supply Water Pressure	40 – 100 PSI (276 – 689 kPa)
Minimum – Maximum Supply Water Temperature	40 - 100°F (5 - 38°C)
Inlet – Outlet	3/8 in. quick connect fittings and tubing included
Maximum Supply Water Iron, Manganese, and Hydrogen Sulfide	0

Pre-Installation (continued)

TOOLS REQUIRED

Phillips screwdriver

Pliers

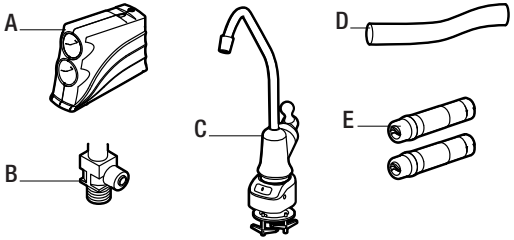
Adjustable wrench

Tubing cutter

Drill and 1-1/4 in. drill bit

Sealant tape

PACKAGE CONTENTS



Part	Description	Quantity
A	Filtration system	1
B	Feed adapter (water supply fitting)	1
C	Filtered water faucet for sink/countertop mounting	1
D	3/8 in. color-coded tubing (used for all connections)	2
E	Filter cartridge	2

1 Connecting the feed water supply fitting

NOTICE: Commonwealth of Massachusetts plumbing codes do not permit the use of saddle valves and require installation by a licensed plumber. Comply with plumbing code 248-CMR for installations in the state of Massachusetts. Please consult your local plumber.

Check and comply with local plumbing codes as you plan and install a cold feed (supply) water fitting. The fitting must provide a leak-tight connection to the water filter 3/8 in. tubing (D). A typical connection using the water supply fitting (B) is shown in Figure A. An optional connection using standard plumbing fittings (not included) is shown in Figure B.

Installation using the Fitting (Figure A):

- □ Close the cold water shut off valve that is immediately upstream of where you will install the feed water supply fitting. Open the faucet to drain water from the sink cold water pipe.
- □ Remove the nut that connects the cold water faucet to cold water plumbing.
- □ Thread the water supply fitting (B) onto the pipe and reconnect the nut to the bottom of the fitting.

Installation using Optional Pipe Fittings (compression type shown – Figure B):

- □ Close the cold water shut off valve that is immediately upstream of where you will install the feed water supply fitting. Open the faucet to drain water from the sink cold water pipe.
- □ Install a fitting on the cold water pipe to adapt to the 3/8 in. OD tubing.
- □ If threaded fittings are used, be sure to use pipe joint compound or thread sealing tape on outside threads.

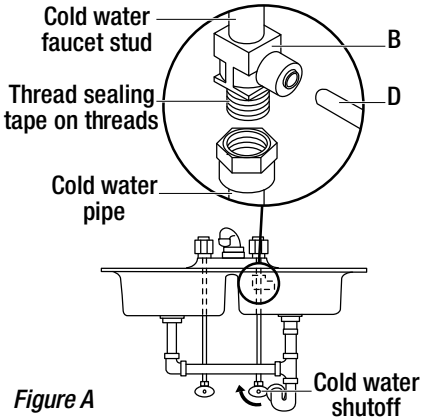


Figure A

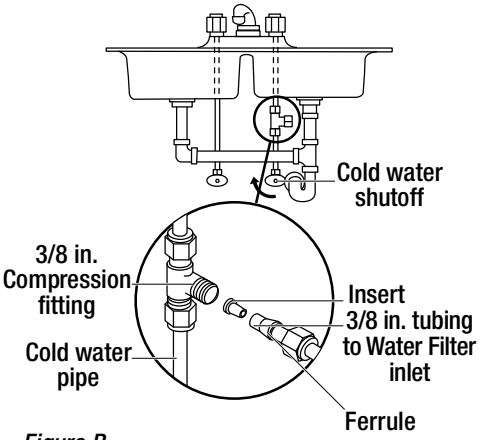


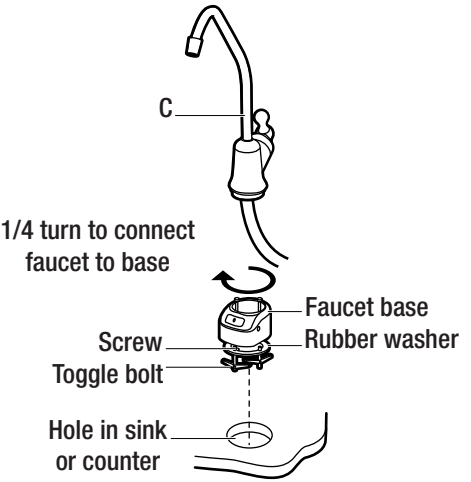
Figure B

2 Installing the faucet

IMPORTANT: To avoid damaging the sink, consult a qualified plumber or installer for drilling procedures in porcelain or stainless steel. Special drill bits are made for this.

Before you begin, ensure there is room underneath the sink or countertop so you can make the needed connections. If drilling is required in the sink top or countertop next to the sink, make a 1-1/4 in. dia. (minimum) hole for the faucet (C).

- □ Insert one end of the blue tube into the faucet (C) (see Step 3 – Connecting the tubes). Feed the other end of the blue tube through the mounting hole.
- □ Slide the toggle bolts through the mounting hole until the faucet (C) base is square against the mounting surface (sink or countertop). Tighten the toggle bolts to secure the base flat on the mounting surface. Do not over-tighten.
- □ Turn the faucet (C) 1/4 clockwise to attach the faucet (C) to the base.



3 Connecting the tubes

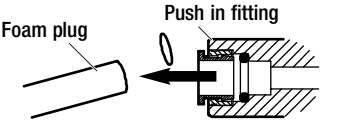
Remove and discard the protective foam plugs (if present) before connecting tubes.

- □ Allowing some slack, measure and cut a length of 3/8 in. tubing (D) to connect between the supply fitting and the filter system inlet. Cut the ends of the tubing square.
- □ Insert tubing all the way into the supply fitting and inlet fitting. Pull on the tubing to be sure that it is securely set in the fittings.
- □ Repeat the first two bullets to connect the tubing from the faucet to the filter system outlet.

Tubing Connection (all push-in fittings):

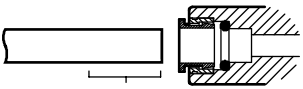
This system includes push-in fittings for quick tubing connections. If working with the fittings, do the following:

- □ Cut the end of the tubing square. Inspect the end (about 1 in.) of the tubing to be sure there are no nicks, scratches or other rough spots. If needed, cut the tubing again.
- □ Push tubing through the collet and through the fitting. Full engagement is 3/4 in. length of tube into the fitting. If tubing other than supplied with the system is used, be sure it is of high quality, exact size and roundness with a smooth surface.

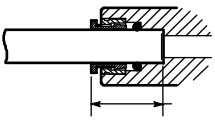


Remove and discard foam plugs

Tubing correctly cut and connected

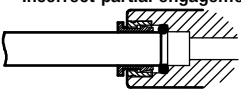


End of tubing round and smooth, with no cuts, nicks or flat spots



Correct full 3/4 in. engagement

Incorrect partial engagement

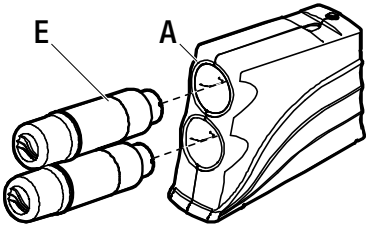


To disconnect, push the collet inward and hold with a finger while pushing the tubing out:

Installation (continued)

4 Installing the filter cartridges

- □ Remove the plastic cap from the filter cartridges (E).
- □ Install the filter cartridges (E) into the two holes in the filter body. Note the filter cartridges are labeled Filter 1 and Filter 2. Turn clockwise to tighten. Do not over tighten.



5 Completing the installation

- □ Open the shutoff valve that you closed at the beginning of this installation.
- □ Open the filtered water faucet (C) to purge air from the system. When the water runs smooth with no bubbles or spurting close the faucet (C) and check the installation for leaks.
- □ Open the filtered water faucet (C) and let water run for 10 minutes to rinse system.

Filter Cartridges

FILTER CARTRIDGE LIFE

Lead, Chlorine Taste and Odor, and Purifying Filter Cartridges: Lead, chlorine taste and odor, and purifying filter cartridges contain activated carbon. When new, open the filtered water faucet and allow fine, carbon particles to purge from the cartridges. Flush for 10 minutes. It is recommended to replace filter cartridges every six months or 350 gallons of use. There are several variables that determine how long a cartridge will last. These include:

1. How much water you use, and

2. How much sediment, taste and/or odor, or other unwanted substance, is in the water.

Use the following information as a guide. However, no matter which type of filter cartridge you are using, you will know it is time to replace it when you first notice the return of the unwanted substance in your water.

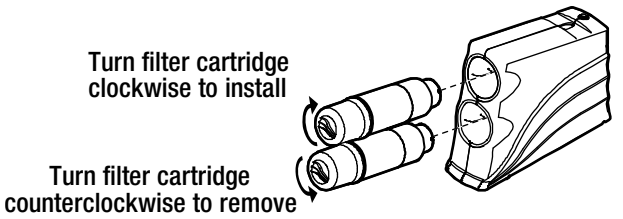
Glacier Bay Ultimate Defense Water Filtration System model HDGMBS4 with replacement elements HDGMBF4 conforms to NSF/ANSI 42 and 53 for the specific performance claims as verified and substantiated by test data. The rated capacity for this system is 350 gallons (1325 liters) at a rated service flow of 0.74 gallons per minute.

State of Wisconsin Required Statement: Do not use in Wisconsin with water that is microbiologically unsafe, or of unknown quality, without adequate point of entry (i.e. whole house) disinfection before this device.

FILTER CARTRIDGE REPLACEMENT

1. Turn the filter cartridges counterclockwise to remove and dispose of them properly.
2. Install the new filter cartridges by turning them clockwise.
3. Remove and replace the timer battery. See the Changing the Faucet Battery section for more information.

Lead, Chlorine Taste and Odor, and Purifying Filter Cartridges: Lead, chlorine taste and odor, and purifying filter cartridges contain activated carbon. When new, open the filtered water faucet and allow fine, carbon particles to purge from the cartridges. Flush for 10 minutes.



Faucet Timer and Battery

FAUCET TIMER

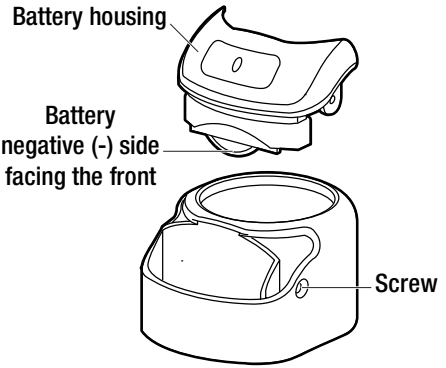
Inside the faucet base is a battery-operated 6 month timer.

An amber LED indicator is also located in the front of the faucet base. This LED flashes continuously after 6 months have passed. This indicates that it is time to replace the battery and filters.

CHANGING THE FAUCET BATTERY

To change the battery, complete the following steps:

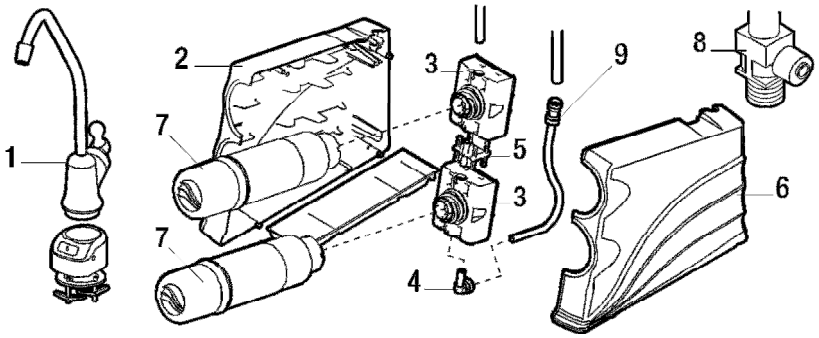
1. Loosen the screw on the right side of the faucet base.
2. Press the battery housing upwards from the faucet base until it releases from the base.
3. Replace the battery (CR 2032 or equivalent). Place battery into the holder with the positive (+) side facing the back of the holder.
4. When the battery is first replaced, the light in the base will flash six times and turn off. This indicates the battery is fully charged. After the six flashes, the timer enters the 6 month time cycle. If it repeatedly flashes two times, the battery is weak and needs to be replaced.
5. Re-install the battery housing and firmly tighten the mounting screw.



Troubleshooting

Problem	Probable Cause	Solution
There is either no or a decreased water flow.	The prefilter is clogged.	Replace the prefilter cartridge.
	Flow through the purifying filter will decrease and eventually clog when exposed to an excess of microbiological loading materials in the water. This failsafe feature reduces the chance of product use beyond its intended life, and will shut down the filter when it is exposed to contaminated water.	Replace all filter cartridges.
The water tastes bad and has an odor.	The filters are expended.	Replace the filter cartridges.
	The system is contaminated.	Sanitize the system. Call 1-800-247-1087 for instructions.
Faucet LED indicator light does not function after a battery change.	The battery is dead.	Replace the battery.
	The battery is not installed correctly.	Install the battery correctly, paying attention to the polarity.
Water leaks at the push connect fittings.	The tubing is not pushed in all the way.	Push tubing in all the way into fittings.
	The tubing is not cut square.	Cut the tubing square.
	The tubing is nicked.	Remove the nicked portion and reinsert the tubing into the fitting.
	The outer tubing surface is not smooth.	Remove the rough portion, and reinsert the tubing into the fitting.

Service Parts



Key Number	Part Number	Description
1	119-8600048	Faucet with base and electronics
2	1073-24-01	Cabinet, left
3	1073-23-HC	Head assembly (includes #5)
4	1073-23-05	Elbow fitting
**	7157280	Tubing, 3/8 in. x 20 ft., white

Key Number	Part Number	Description
5		3/8 x 3/8 in. coupler
6	1073-24-02	Cabinet, right
7	HDGMBF4/HCGMBF5	Replacement filter cartridge, 2-pack*
8	7228536	Tee, feed adapter
9	1073-22-09	3/8 x 3/8 in. union, yellow

*Please purchase replacement cartridges from the retailer where you purchased this system.

**This tubing is not included. Tubing lengths for remote installation, direct replacement for colored lengths of tubing.

GLACIER BAY®

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call Glacier Bay Customer Service
7 a.m. - 6 p.m., CST, Monday-Friday

1-800-247-1087

HOMEDEPOT.COM/GLACIERBAY

Retain this manual for future use.

Manufactured by
Ecodyne Water Systems
1890 Woodlane Drive
Woodbury, MN 55125

Performance Data Sheet
Model HDGMBS4 Purification System

IMPORTANT NOTICE: Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that, before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs. This filter system is designed to be used for the reduction of the performance claims listed below. Do not use for the treatment of water that is visually contaminated (cloudy) or has an obvious contamination source, such as contamination by raw sewage. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts. While testing was performed under standard laboratory conditions, actual performance of the system may vary based on local water conditions. Some or all of the contaminants reduced by this unit may not be in your water supply. **See Installation and Operation Manual for further instructions on filter cartridge replacement, system installation, operating procedures, and warranty. The maintenance instructions must be followed for the product to perform as indicated below.**

Performance Claims

Contaminant	Required Influent Level (µg/L)[2]	NSF Max. Permissible Eff. Level (µg/L)[2]	Average Influent Level (µg/L)[2]	Avg. / Max. Effluent Level (µg/L)[2]	Avg. / Min. Percent Removal	EPA[1] MCL (µg/L)[2]
Lead @ pH 6.5	150 ± 10%	10	150	1/1	99.3 / 99.3	15
Lead @ pH 8.5	150 ± 10%	10	140	1/1	99.3 / 99.3	15
Substance						
Chlorine Taste, and Odor	2000 ± 10%	50%[3]	1900	50 / 50	97.4 / 97.2	None[4]
Particulate, Class I (0.5 to <1 micron)[5]	10,000[5]	85%[3]	6,000,000[5]	5,567/28,000[5]	99.9/99.6	None[4]
VOC Reduction[6]						
Chloroform	300 ± 10%	95%	300	0.5 / 0.5	99.8 / 99.7	15

[1] EPA MCL means Environmental Protection Agency Maximum Contaminant Level as required under the Safe Drinking Water Act.
[2] µg/L means Micrograms Per Liter, which is equivalent to parts per billion (PPB).
[3] NSF minimum percent reduction requirement. Acceptance level for this substance is based on percent reduction rather than maximum effluent concentration.
[4] The EPA has not determined an MCL for this chemical. [5] Particulate Class I reported in particles per milliliter or mL
[6] Chloroform was used as a surrogate for the reduction of chemicals specified in the Organic Chemicals Reduced by Chloroform Surrogate Testing table.

This system has been tested according to NSF/ANSI 42/53 for reduction of the substances listed. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42/53.

Organic Chemicals Reduced by Chloroform Surrogate Testing

Contaminant	Average[1] Influent (µg/L)[2]	Maximum Effluent (µg/L)[2]	Percent Removal	EPA MCL (µg/L)[2]	Contaminant	Average[1] Influent (µg/L)[2]	Maximum Effluent (µg/L)[2]	Percent Removal	EPA MCL (µg/L)[2]
Alachlor	50	1.0[3]	>98	2.0	Haloketones (HK):				
Atrazine	100	3.0[3]	>97	3.0	1,1-dichloro-2-propanone	7.2	0.1[4]	99	NA
Benzene	81	1.0[3]	99	5.0	1,1,1-trichloro-2-propanone	8.2[6]	0.3[4]	96	NA
Carbofuran	190	1.0[3]	>99	40	Heptachlor	25	0.01[3]	>99	0.4
Carbon Tetrachloride	78	1.8[4]	98	5.0	Heptachlor Epoxide	10.7[6]	0.2[6]	98	0.2
Chlorobenzene	77	1.0[3]	99	100	Hexachlorobutadiene	44	1.0[3]	98	NA
Chloropicrin	15	0.2[4]	99	NA	Hexachlorocyclopentadiene	60	0.002[3]	>99	50
2,4-D	110	1.7[4]	98	70	Lindane	55	0.01[3]	>99	0.2
Dibromochloropropane (DBCP)	52	0.02[3]	>99	0.2	Methoxychlor	50	0.1[3]	>99	40
o-Dichlorobenzene	80	1.0[3]	99	600	Pentachlorophenol	96	1.0[3]	99	1.0
p-Dichlorobenzene	40	1.0[3]	98	75	Simazine	120	4.0[3]	97	4.0
1,2-Dichloroethane	88	4.8[5]	95[5]	5.0	Styrene	150	0.5[3]	>99	100
1,1-Dichloroethylene	83	1.0[3]	99	7.0	1,1,2,2-Tetrachloroethane	81	1.0[3]	99	NA
cis-1,2-Dichloroethylene	170	0.5[3]	>99	70	Tetrachloroethylene	81	1.0[3]	99	5.0
trans-1,2-Dichloroethylene	86	1.0[3]	99	100	Toluene	78	1.0[3]	99	1,000
1,2-Dichloropropane	80	1.0[3]	99	5.0	2,4,5-TP (silvex)	270	1.6[3]	99	50
cis-1,3-Dichloropropylene	79	1.0[3]	99	NA	Tribromoacetic acid	42	1.0[3]	98	NA
Dinoseb	170	0.2[4]	99	7.0	1,2,4-Trichlorobenzene	160	0.5[3]	>99	70
Endrin	53	0.59[4]	99	2.0	1,1,1-Trichloroethane	84	4.6[4]	95	200
Ethylbenzene	88	1.0[3]	99	700	1,1,2-Trichloroethane	150	0.5[3]	>99	5.0
Ethylene Dibromide (EDB)	44	0.02[3]	>99	0.05	Trichloroethylene	180	1.0[3]	>99	5.0
Haloacetonitriles (HAN):					Trihalomethanes (includes):	300	15	95	80
Bromochloroacetonitrile	22	0.5[4]	98	NA	Chloroform (surrogate chemical)				
Dibromoacetonitrile	24	0.6[4]	98	NA	Bromoform				
Dichloroacetonitrile	9.6	0.2[4]	98	NA	Bromodichloromethane				
Trichloroacetonitrile	15	0.3[4]	98	NA	Chlorodibromomethane				
					Xylenes (total)	70	1.0[3]	99	10,000

[1] Influent challenge levels are average influent concentrations determined in surrogate qualification testing. [2] µg/L means Micrograms per Liter.
[3] Maximum product water level was not observed but was set at the detection limit of the analysis. [4] Maximum product level is set at a value determined in surrogate qualification testing.
[5] Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.
[6] The surrogate test results for heptachlor Epoxide demonstrated a 98% reduction. These data were used to calculate an upper occurrence concentration, which would produce a maximum product water level at the MCL.

Cyst, virus, and bacteria reduction tested by BioVir Labs in accordance with the EPA and State of California Department of Public Health test protocol.

Substance	Log Reduction	% Reduction
Cyst	3.5	99.95%
Virus	4	99.99%
Bacteria	6	99.9999%

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General Information

This system improves the taste and odor and reduces many chemical contaminants in drinking water. This system has been tested according to NSF/ANSI 42 and 53 for the reduction of the substances listed on the previous page. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42 and 53. The testing was performed using spiked tap water at a flow rate of 0.74 GPM (2.8 L/min.), pH of 7.5 ± 0.5, pressure of 60 PSIG, and temperature of 68 ± 5°F.

System tested and certified by NSF International against NSF/ASNI Standard 42 and 53 for Chlorine Taste and Odor, VOC, Lead, Class I Particulate and for Material Requirements.

Installation Requirements

Pressure Range ..... 40-100 psig (276-689kPa)
Temperature Range .....40-100°F (4-38°C)
Service Flow Rate (maximum).....0.74 GPM (2.8 LPM)
Service Life .....350 Gallons (1325 Liters)

The filter element contains activated carbon. After the new filter is installed, flush water through to allow fine, harmless carbon particles to purge from the filter, until the "fines" in the filtered water are no longer visible, or approximately 10 minutes.

Tested and certified by WQA against NSF/ANSI standard 42, 53, and USEPA microbiological guide for the reduction of the claims specified in this document.

Installation and Maintenance

All plumbing should be done in accordance with local codes and requirements. This system should be installed on a cold water supply only. In Massachusetts, plumbing codes CMR-248 3.00 and 10.00 shall be adhered to. Consult with your licensed plumber. Filter should be replaced every 350 gallons or six months, whichever comes first. For replacement elements, call 1-800-247-1087 or contact your nearest The Home Depot's store. Replacement filter prices will vary. Current pricing for the replacement filters HDGMBF4 is approximately $50 to $75.

Manufactured and warranted by:
Ecodyne Water Systems
1890 Woodlane Drive
Woodbury, MN 55125

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Buyer/Renter _____ Date _____

Seller _____ Date _____

Seller's Address _____

Seller's Phone # _____

Product: GLACIER BAY Drinking Water Filter Model HDGMBS4

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